

## PATENT ABSTRACTS OF JAPAN

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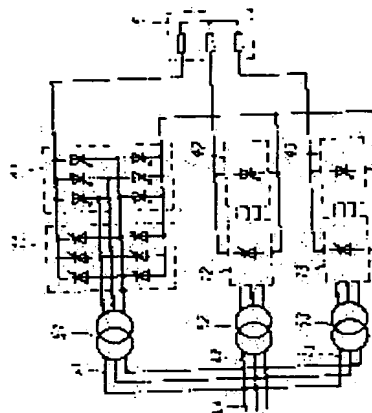
(21)Application number : 60-014465 (71)Applicant : FUJI ELECTRIC CO LTD

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**(54) REACTIVE POWER COMPENSATION TYPE POLYPHASE CYCLOCONVERTER****(57)Abstract:**

**PURPOSE:** To reduce a reactive power by connecting a plurality of sets of unit cycloconverters connected in anti-parallel with separately-excited converters and self-excited converters, and cancelling the delay current of the separately-excited converter with the leading phase current flowed to the self-excited converter.

**CONSTITUTION:** Unit cycloconverters in which separately-excited converters 11 ~ 13 and self-excited converters 41 ~ 43 are connected in anti-parallel are connected with transformers 51 ~ 53 of the respective phases to form a polyphase cycloconverter. A control angle is regulated to flow currents of leading phase to the converters 41 ~ 43. The converters 11 ~ 13 are operated in phase for removing the delay currents from the power source in principle. The leading phases of the self-excited converters are controlled by a CPU, not shown, to cancel the delay current of the separately-excited converters. Thus, the reactive currents of the combined powers can be reduced.

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